What is Claimed:

1	1.	A bull	k materials pump feeder comprising:
2	a hou	sing ha	ving:
3		(a)	an inlet,
4		(b)	an outlet, and
5		(c)	an inner wall extending from the inlet to the outlet; and
6	a driv	e rotor	having:
7		(a)	a hub rotatable about a rotation axis,
8		(b)	a plurality of drive disks having a periphery and
9 10			ding away from the hub toward the inner wall of the ng, and
11		(c)	means disposed on the periphery of the drive disks for
12 13			g the area between the periphery of the drive disks and ner wall of the housing;
14	the inner wall of the	housir	ng, the drive disks, and the hub defining a materials
15	transfer duct throug	h whic	n material is transferred from the inlet of the housing to
16	the outlet of the hou	sing.	
1	2.	The b	ulk materials pump feeder according to claim 1 wherein
2	the distance between	n the c	ircumferential edges of the drive disks and the inner wall
3	of the housing increa	ases fro	om the inlet of the housing to the outlet of the housing in
4	the direction of rotat	ion of	the drive rotor.

1		3.	The bulk materials pump feeder according to claim 2 further
2	comprising a	materi	als scraper:
3		(a)	mounted in the housing,
4		(b)	extending into the drive rotor between the drive disks, and
5		(c)	having a flexible tip preventing material handled by the bulk
6			materials pump feeder from either flowing backward to a
7			discharge point proximate the outlet of the housing or jamming
8			between the drive disks and the materials scraper.
1		4.	The bulk materials pump feeder according to claim 1 further
2	comprising a	materia	als scraper:
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3		(a)	mounted in the housing,
4		(b)	automalina into the deive actor between the deive distance
7		(b)	extending into the drive rotor between the drive disks, and
5		(c)	having a flexible tip preventing material handled by the bulk
6		(-)	materials pump feeder from either flowing backward to a
7			discharge point proximate the outlet of the housing or jamming
8			between the drive disks and the materials scraper.
·			between the drive disks and the materials scraper.
1		5.	The bulk materials pump feeder according to claim 1 wherein
2	the sealing m	eans co	omprises a low-friction brush seal.
1		6.	The bulk materials pump feeder according to claim 5 wherein
2	the brush sea	l is ma	de of pipe cleaner.
1		7.	The bulk materials pump feeder according to claim 1 wherein
2	the sealing m	eans is	attached to the drive disks using an adhesive.

1	8.	The	bulk materials pump feeder according to claim 1 wherein
2	the drive disks have	a cha	nnel formed in their periphery and the sealing means is
3	disposed in the chai	nnel.	
1	9.	The	bulk materials pump feeder according to claim 1 wherein
2	the drive disks have	e textu	red interior faces.
1	10.	A bu	lk materials pump feeder comprising:
2	a hou	sing h	aving:
3		(a)	an inlet,
4		(b)	an outlet, and
5		(c)	an inner wall extending from the inlet to the outlet;
6	. a driv	e rotoi	having:
7		(a)	a hub rotatable about a rotation axis, and
8		(b)	a plurality of drive disks having a periphery and
9			extending away from the hub toward the inner wall of
10			the housing; and
11	a mat	erials :	scraper:
12	(a)	mour	nted in the housing,

13	(b) ext	ending into the drive rotor between the drive disks, and
14	(c) hav	ring a flexible tip preventing material handled by the bulk
15	ma	terials pump feeder from either flowing backward to a
16	dise	charge point proximate the outlet of the housing or jamming
17	bet	ween the drive disks and the materials scraper;
18	the inner wall of the hou	sing, the drive disks, and the hub defining a materials
19	transfer duct through wh	ich material is transferred from the inlet of the housing to
20	the outlet of the housing	•
1	11. The	e bulk materials pump feeder according to claim 10 wherein
2	the distance between the	e circumferential edges of the drive disks and the inner wall
3	of the housing increases	from the inlet of the housing to the outlet of the housing in
4	the direction of rotation	of the drive rotor.
1	12. The	bulk materials pump feeder according to claim 10 wherein
2	the housing further has a	recess in the inner wall downstream from the outlet of the
3	housing and upstream fr	om the inlet of the housing relative to the direction of
4	rotation of the drive roto	r and the materials scraper is mounted in the recess.
1	13. The	bulk materials pump feeder according to claim 10 wherein
2	the materials scraper als	o has a plurality of scraping tips.
1	14. The	bulk materials pump feeder according to claim 10 wherein
2	the materials scraper als	o has a continuous scraping surface.
1	15. The	bulk materials pump feeder according to claim 10 wherein
2	the hub has a textured s	urface.
1	16. The	bulk materials pump feeder according to claim 10 wherein
2	the drive disks have text	ured interior faces.

1	17. A I	bulk materials pump feeder comprising:
2	a housing	having:
3	(a)) an inlet,
4	(b)) an outlet, and
5	(c)	an inner wall extending from the inlet to the outlet;
6	a drive ro	tor having:
7	(a)	a hub rotatable about a rotation axis,
8	(b)) a plurality of drive disks having a periphery and
9		extending away from the hub toward the inner wall of
10		the housing, with the distance between the
11		circumferential edges of the drive disks and the inner
12		wall of the housing increasing from the inlet of the
13		housing to the outlet of the housing in the direction of
14		rotation of the drive rotor, and
15	(c)	a low-friction brush seal disposed on the periphery of
16		the drive disks for sealing the area between the
17		periphery of the drive disks and the inner wall of the
18		housing; and
19	a materia	ls scraper:
20	(a) mo	ounted in the housing,
21	(b) ext	tending into the drive rotor between the drive disks, and

22	(c) having a flexible tip preventing material handled by the bulk
23	materials pump feeder from either flowing backward to a
24	discharge point proximate the outlet of the housing or jamming
25	between the drive disks and the materials scraper;
26	the inner wall of the housing, the drive disks, and the hub defining a materials
27	transfer duct through which material is transferred from the inlet of the housing to
28	the outlet of the housing.
1	18. The bulk materials pump feeder according to claim 17 wherein
2	the drive disks have a channel formed in their periphery and the brush seal is
3	disposed in the channel.
1	19. The bulk materials pump feeder according to claim 17 wherein
2	the hub has a textured surface.
1	20. The bulk materials pump feeder according to claim 17 wherein
2	the drive disks have textured interior faces.